

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=8; day=11; hr=15; min=14; sec=59; ms=506;]

=====

Reviewer Comments:

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide construct

The above <223> response is an insufficient explanation for "Artificial Sequence": please give the source of the genetic material.

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Completely synthesized peptide construct

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> cyclohexylalanine, D-alanine, acetyl, ClAc, BrAc

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa is an amino acid V, L, I, G or A

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<223> Xaa is an amino acid V, L, I, G or A

<220>
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<223> Xaa is an amino acid V, L, I, G or A

<400> 6

Xaa Glu Glu Thr Xaa Gly Xaa Ser Gln Leu Glu Val Gly Gly Gly

The above sequence has no amino acid numbering: please insert amino acid numbers under every 5 amino acids. Do not use TAB codes between amino acid numbers: TAB's cause misaligned numbers. Same error in Sequence 29.

<210> 21
<211> 17
<212> PRT
<213> Artificial Sequence

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<223> gamma aminobutyric acid (gaba) or 3 amino propanoic acid (apa)

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<222> (17)..(17)
<223> AMIDATION

<400> 21

Asp	Gly	Gln	Glu	Glu	Lys	Ala	Val	Val	Ser	Thr	Gly	Leu	Ile	Gly	Gly
1				5					10					15	

Gly

The above <220>-<223> section describing amino acids at locations 7 and 8 is incorrect. "Ala" is at location 7 and "Val" is at location 8: they can only represent themselves. In order for location 7 to also represent "GABA" and for location 8 to also represent "apa," use "Xaa's" instead, explain in the <220>-<223> section. This type of error also appears in subsequent sequences.

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=8; day=11; hr=14; min=16; sec=4; ms=564;]

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Reviewer Comments:

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> peptide construct

The above <223> response is an insufficient explanation for "<213> Artificial Sequence." Please give the source of the genetic material.

<210> 6

<211> 15

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<400> 6

Xaa Glu Glu Thr Xaa Gly Xaa Ser Gln Leu Glu Val Gly Gly Gly

Sequence 6 above shows no amino acid numbers: please insert them under every 5 amino acids. Do not use TAB codes between the amino acid numbers: they cause misalignment. Same error in Sequence 29.

<210> 21
<211> 17
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<223> gamma aminobutyric acid (gaba) or 3 amino propanoic acid (apa)

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<400> 21

Asp	Gly	Gln	Glu	Glu	Lys	Ala	Val	Val	Ser	Thr	Gly	Leu	Ile	Gly	Gly
1				5					10					15	

Gly

The above <220>-<223> section describing amino acids at locations 7 and 8 is incorrect: "Ala" is at location 7 and can only represent itself: "Val" is at location 8 and can only represent itself. They cannot represent "GABA" or "apa." Please use "Xaa's" instead, at locations 7 and 8, and explain in the <220>-<223> section. This type of error also appears in subsequent sequences.

Application No: 10502328 Version No: 4.0

Input Set:

Output Set:

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Finished: 2008-07-03 14:21:26.826
Elapsed: 0 hr(s) 0 min(s) 21 sec(s) 335 ms
Total Warnings: 29
Total Errors: 23
No. of SeqIDs Defined: 29
Actual SeqID Count: 29

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E 257	Invalid sequence data feature in <221> in SEQ ID (3)
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W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
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W 213	Artificial or Unknown found in <213> in SEQ ID (10)
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W 213	Artificial or Unknown found in <213> in SEQ ID (11)
E 257	Invalid sequence data feature in <221> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)

Input Set:

Output Set:

Started: 2008-07-03 14:21:05.491
Finished: 2008-07-03 14:21:26.826
Elapsed: 0 hr(s) 0 min(s) 21 sec(s) 335 ms
Total Warnings: 29
Total Errors: 23
No. of SeqIDs Defined: 29
Actual SeqID Count: 29

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SEQUENCE LISTING

<110> Zimmerman, Daniel H
 Charoenvit, Yupin
 Rosenthal, Kenneth
 Whelan, Mike

<120> METHODS FOR TREATING DISEASES OR CONDITIONS WITH PEPTIDE
 CONSTRUCTS

<130> CS-118

<140> 10502328
 <141> 2005-05-19

<150> US 60/350,032
 <151> 2002-01-23

<150> US 60/349,982
 <151> 2002-01-23

<150> US 60/349,983
 <151> 2002-01-23

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 <151> 2003-01-23

<160> 29

<170> PatentIn version 3.2

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Xaa Glu Glu Thr Xaa Gly Xaa Ser Gln Leu Glu Val Gly Gly Gly

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Gly Gly

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Lysine or hydroxy-Leucine or Leucine

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Gly Gly

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<210> 12
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<210> 13

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1 5

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<400> 16

Xaa Thr Val Gly Val Ser
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<210> 17
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1 5

<210> 18
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 <400> 18

Xaa	Gly	Gln	Glu	Glu	Lys	Ala	Gly	Val	Val	Ser	Thr	Gly	Leu	Ile
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 <400> 19

Xaa	Gln	Glu	Glu	Lys	Ala	Gly	Val	Val	Ser	Thr	Gly	Leu	Ile
1				5				10					

<210> 20
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<400> 20

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1 5 10 15

Asn Gly Asp Trp Thr Phe Gln Thr Leu Val
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Asp Gly Asp Trp Thr Phe Gln Thr Leu Val
20 25

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<223> X is A or E and when X is A, then A is either cyclohexylalanine or D-alanine

<220>

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<222> (22)..(22)

<223> AMIDATION

<400> 27

Xaa Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp
1 5 10 15

Thr Phe Gln Thr Leu Val
20

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<223> acetyl, ClAc, BrAc

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<223> gamma aminobutyric acid (gaba) or 3 amino propanoic acid (apa)

<220>
<221> MOD_RES
<222> (17)..(17)
<223> AMIDATION

<400> 28

Xaa Gly Gly Ile Leu Gly Thr Ser Val Val Ala Lys Glu Glu Gln Gly
1 5 10 15

Asp

<210> 29
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<223> acetyl, ClAc, BrAc

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<220>

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<222> (4)..(4)

<223> AMIDATION

<400> 29

Xaa Val Ala Lys Glu

SEQUENCE LISTING

<110> Zimmerman, Daniel H
 Charoenvit, Yupin
 Rosenthal, Kenneth
 Whelan, Mike

<120> METHODS FOR TREATING DISEASES OR CONDITIONS WITH PEPTIDE
 CONSTRUCTS

<130> CS-118

<140> 10502328
 <141> 2005-05-19

<150> US 60/350,032
 <151> 2002-01-23

<150> US 60/349,982
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Glu Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gln Asn Gly Asp
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<220>
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<222> (15)..(15)
<223> highly variable fragment wherein isoleucine at 143 and leucine at 159 in contact with CD4 phenylalanine as the 43 residue

<220>
<221> MOD_RES
<222> (15)..(15)
<223> AMIDATION

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Xaa	Gly	Gln	Glu	Glu	Lys	Ala	Gly	Val	Val	Ser	Thr	Gly	Leu	Ile
1				5				10					15	

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<223> ACETYLATION, Aad

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<223> acetyl, ClAc, BrAc

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<223> X is A or E and when X is A, then A is either cyclohexylalanine or D-alanine

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<221> MOD_RES
<222> (11)..(11)
<223> AMIDATION

<400> 3

Xaa Glu Thr Val Gly Val Ser Gln Leu Glu Val
1 5 10

<210> 4

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Completely synthesized peptide construct

<400> 4

Asn Gly Gln Glu Glu Thr Val Gly Val Ser Ser Thr Gln Leu Ile
1 5 10 15

<210> 5

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Completely synthesized peptide construct

<400> 5

Asn Gly Gln Glu Glu Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gly
1 5 10 15

Gly Gly

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Completely synthesized peptide construct

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> cyclohexylalanine, D-alanine, acetyl, ClAc, BrAc

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa is an amino acid V, L, I, G or A

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa is an amino acid V, L, I, G or A

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is an amino acid V, L, I, G or A

<400> 6

Xaa Glu Glu Thr Xaa Gly Xaa Ser Gln Leu Glu Val Gly Gly Gly

<210> 7
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<220>
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<223> acetyl, ClAc, BrAc

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<223> X is A or D and when X is A, then A is either cyclohexylalanine or D-alanine

<220>
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<222> (6)..(6)
<223> Xaa is an amino acid V, L, I, G or A

<220>
<221> MOD_RES
<222> (18)..(18)
<223> AMIDATION

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Xaa Gly Gln Glu Glu Xaa Ala Gly Val Val Ser Thr Gly Leu Ile Gly
1 5 10 15

Gly Gly

<210> 8
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<223> acetyl, ClAc, BrAc

<220>
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<222> (1)..(1)
<223> X is A or G and when X is A, then A is either cyclohexylalanine or D-alanine

<220>
<221> MOD_RES
<222> (17)..(17)
<223> AMIDATION

<400> 8

Xaa Gln Glu Glu Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gly Gly
1 5 10 15

Gly

<210> 9
<211> 18
<212> PRT
<213> Artificial Sequence

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<223> X is A or D and when X is A, then A is either cyclohexylalanine or D-alanine

<220>
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<222> (6)..(6)
<223> Xaa is an amino acid V, L, I, G, A

<220>
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<222> (6)..(6)
<223> analogues such as substituted epsilon amino (methyl, alkyl)
Lysine or hydroxy-Leucine or Leucine

<220>
<221> MOD_RES
<222> (18)..(18)
<223> AMIDATION

<400> 9

Xaa Gly Gln Glu Glu Xaa Ala Gly Val Val Ser Thr Gly Leu Ile Gly
1 5 10 15

Gly Gly

<210> 10
<211> 18
<212> PRT
<213> Artificial Sequence

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<220>
<221> MOD_RES
<222> (18)..(18)
<223> AMIDATION

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Xaa Gly Gln Glu Glu Phe Ala Gly Val Val Ser Thr Gly Leu Ile Gly
1 5 10 15

Gly Gly

<210> 11
<211> 10
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (10)..(10)
<223> AMIDATION

<400> 11

Xaa Thr Val Gly Val Ser Gln Leu Glu Val
1 5 10

<210> 12
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<223> acetyl, ClAc, BrAc

<220>
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<222> (1)..(1)
<223> X is A or E and when X is A, then A is either cyclohexylalanine or D-alanine

<220>

<221> MOD_RES

<222> (10)..(10)

<223> AMIDATION

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Xaa Thr Val Gly Val Ser Gln Leu Glu Val

1 5 10

<210> 13

<211> 9

<212> PRT

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<220>

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<220>

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<222> (1)..(1)

<223> acetyl, ClAc, BrAc

<220>

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<222> (1)..(1)

<223> X is A or E and when X is A, then A is either cyclohexylalanine or D-alanine

<220>

<221> MOD_RES

<222> (9)..(9)

<223> AMIDATION

<400> 13

Xaa Thr Val Gly Val Ser Gln Leu Glu

1 5

<210> 14

<211> 8

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<223> acetyl, ClAc, BrAc

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<220>
<221> MOD_RES
<222> (8)..(8)
<223> AMIDATION

<400> 14

Xaa Thr Val Gly Val Ser Gln Leu
1 5

<210> 15
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<222> (7)..(7)
<223> AMIDATION

<400> 15

Xaa Thr Val Gly Val Ser Gln
1 5

<210> 16
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<223> acetyl, ClAc, BrAc

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<220>
<221> MOD_RES
<222> (6)..(6)
<223> AMIDATION

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Xaa Thr Val Gly Val Ser
1 5

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<211> 5
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<223> acetyl, ClAc, BrAc

<220>
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<220>
<221> MOD_RES
<222> (5)..(5)
<223> AMIDATION

<400> 17

Xaa Thr Val Gly Val
1 5

<210> 18
<211> 15

<212> PRT
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 <400> 18

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1				5				10					15	

<210> 19
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 <400> 19

Xaa	Gln	Glu	Glu	Lys	Ala	Gly	Val	Val	Ser	Thr	Gly	Leu	Ile
1				5				10					

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<223> acetyl, ClAc, BrAc

<220>
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<223> X is A or D and when X is A, then A is either cyclohexylalanine or D-alanine

<220>
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<222> (19)..(19)
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<400> 20

Xaa Gly Gln Glu Glu Lys Ala Gly Gly Val Val Ser Thr Gly Leu Ile
1 5 10 15

Gly Gly Gly

<210> 21
<211> 17
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<220>
<221> MOD_RES
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1 5 10 15

Gly

<210> 22
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 <223> GG is replaced with gamma aminobutyric acid (gaba) or 3 amino
 propanoic acid (apa)

 <220>
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 <400> 22

Xaa Gly Gln Glu Ala Gly Val Val Ser Thr Gly Leu Ile Gly Gly Gly
 1 5 10 15

<210> 23
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 <223> GG is replaced with gamma aminobutyric acid (gaba) or 3 amino
 propanoic acid (apa)

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 <223> acetyl, ClAc, BrAc

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<400> 23

Xaa Glu Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gly Gly Gly
1 5 10 15

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<400> 24

Xaa Gly Gln Glu Glu Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gln
1 5 10 15

Asn Gly Asp Trp Thr Phe Gln Thr Leu Val
20 25

<210> 25
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<220>
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<223> AMIDATION

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1 5 10 15

Asp Gly Asp Trp Thr Phe Gln Thr Leu Val
20 25

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<223> acetyl, ClAc, BrAc

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<223> X is A or N and when X is A, then A is either cyclohexylalanine or D-alanine

<220>
<221> misc_feature
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<220>
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<223> hydrophilic aminobutanoic acid (aba)

<220>

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<222> (19)..(19)

<223> S or not present

<220>

<221> MOD_RES

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<400> 26

Xaa Gly Gln Glu Glu Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gln
1 5 10 15

Ala Xaa Gly Asp Trp Thr Phe Gln Thr Leu Val
20 25

<210> 27

<211> 22

<212> PRT

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<223> acetyl, ClAc, BrAc

<220>

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<223> X is A or E and when X is A, then A is either cyclohexylalanine or D-alanine

<220>

<221> MOD_RES

<222> (22)..(22)

<223> AMIDATION

<400> 27

Xaa Lys Ala Gly Val Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp
1 5 10 15

Thr Phe Gln Thr Leu Val
20

<210> 28
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<220>
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<222> (10)..(11)
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<220>
<221> MOD_RES
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<400> 28

Xaa Gly Gly Ile Leu Gly Thr Ser Val Val Ala Lys Glu Glu Gln Gly
1 5 10 15

Asp

<210> 29
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<223> acetyl, ClAc, BrAc

<220>

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<222> (1)..(1)

<223> X is A or G and when X is A, then A is either cyclohexylalanine or D-alanine

<220>

<221> MOD_RES

<222> (4)..(4)

<223> AMIDATION

<400> 29

Xaa Val Ala Lys Glu